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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,949	03/22/2004	Gary D. Niehaus	25080/04026	9888
	590 12/15/2004		EXAM	INER
CALFEE HALTER & GRISWOLD, LLP 800 SUPERIOR AVENUE			YU, MELANIE J	
SUITE 1400			ART UNIT	PAPER NUMBER
CLEVELAND, OH 44114			1641	
			DATEMAR ED 10115/000	

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/805,949	NIEHAUS, GARY D.				
Office Action Summary	Examiner	Art Unit				
	Melanie Yu	1641				
The MAILING DATE of this communication ap	pears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (in will apply and will expire SIX (6) MONTH	ly be timely filed 30) days will be considered timely. So from the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed on 12 July	ulv 2004.					
2a) This action is FINAL . 2b) This action is non-final.						
3)☐ Since this application is in condition for allowa	nce except for formal matters	s, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-40 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-40</u> are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of 	have been received. have been received in Applity documents have been received in CPCT Rule 17.2(a)).	ication No ceived in this National Stage				
	·					
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Sumr	mary (PTO-413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Inform 6) Other:	nal Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-22 are drawn to a device for detecting the presence of a ligand in a sample, classified in class 422, subclass 50.
- II. Claims 23-33 are drawn to a flow channel module for use in a device, classified in class 422, subclass 63.
- III. Claims 34 and 35 are drawn to a reader module for use in a device, classified in class 422, subclass 68.1.
- IV. Claims 35-40 are drawn to a method for detecting the presence of a ligand, classified in class 435, subclass 7.1.

The inventions are distinct, each from the other because of the following reasons:

1. Inventions of a) group I and b) each of groups II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination of group II as claimed because the flow channel in the device of group I does not require liquid crystalline material and does not require the particulars of the subcombination of group II as claimed because the device of group I does not require a polarized filter. The subcombinations of groups II and III have separate utility group II can also be used in

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a microfluidic device for controlling fluid flow, while the subcombination of group III can be used for separation or filtration of a ligand from a sample.

- 2. Inventions of group I and group IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product can be used in a materially different process such as separation of a specific ligand from a sample.
- 3. Inventions of groups II and III are patentably distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different effects. The product of group II is a flow channel module, and requires a first and second chamber, which is not required of the product of group III. The product of group III is a reader module, and requires a polarized filter, which is not required of the product of group II.
- 4. Inventions of a) each of groups II and III and b) group IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product of group II can be used in a materially different process such as controlling fluid flow in a microfluidic device. The product of group III can be used in a materially different process such as separation or

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filtration of a ligand from a sample. It is noted that two claims are numbered as 35. Claim 35 dependent on claim 34 is included in group III, while independent claim 35 is included in group IV.

- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 6. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of M.P.E.P. §821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined.

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See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See M.P.E.P. § 804.01.

7. A telephone call was made to Ms. Diane Dobrea on November 29, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Yu whose telephone number is (571) 272-2933. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melanie Yu

Patent Examiner

Melan

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SUPERVISORY PATENT EXAMINER TECHNICA DOY OF NITER 1600

12/10/04